

APPENDIX

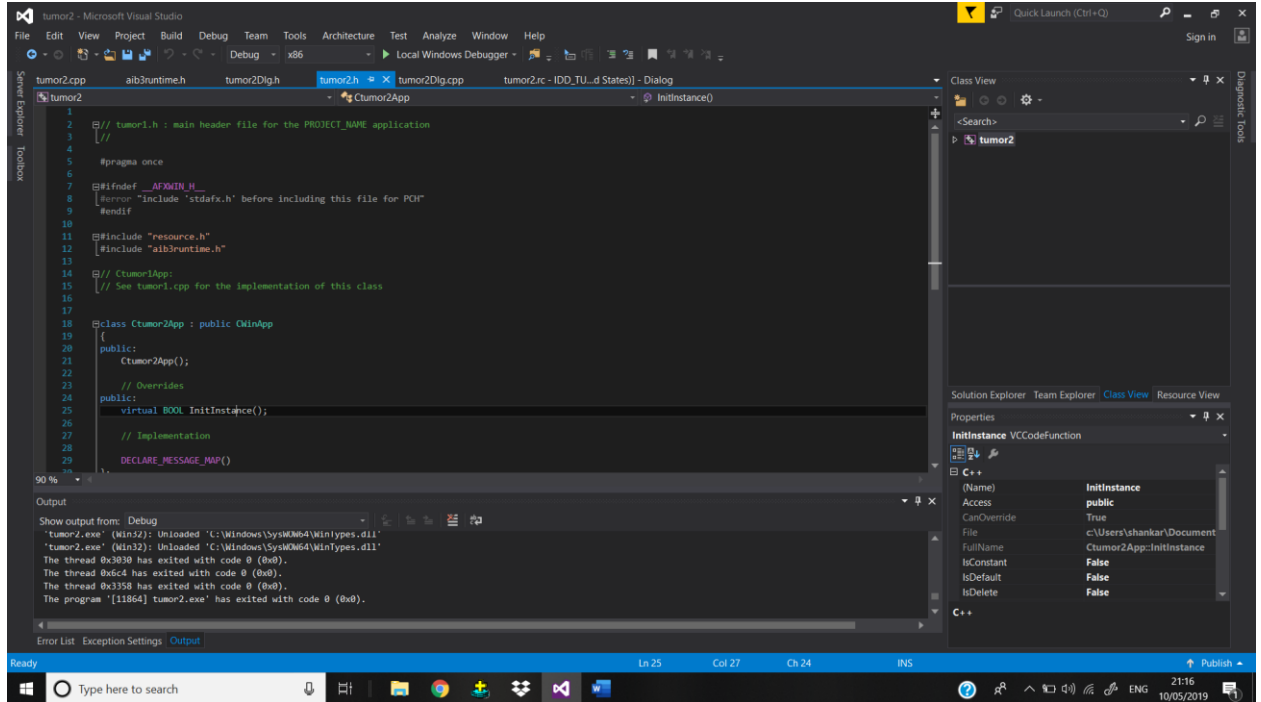


Figure A1. Header file

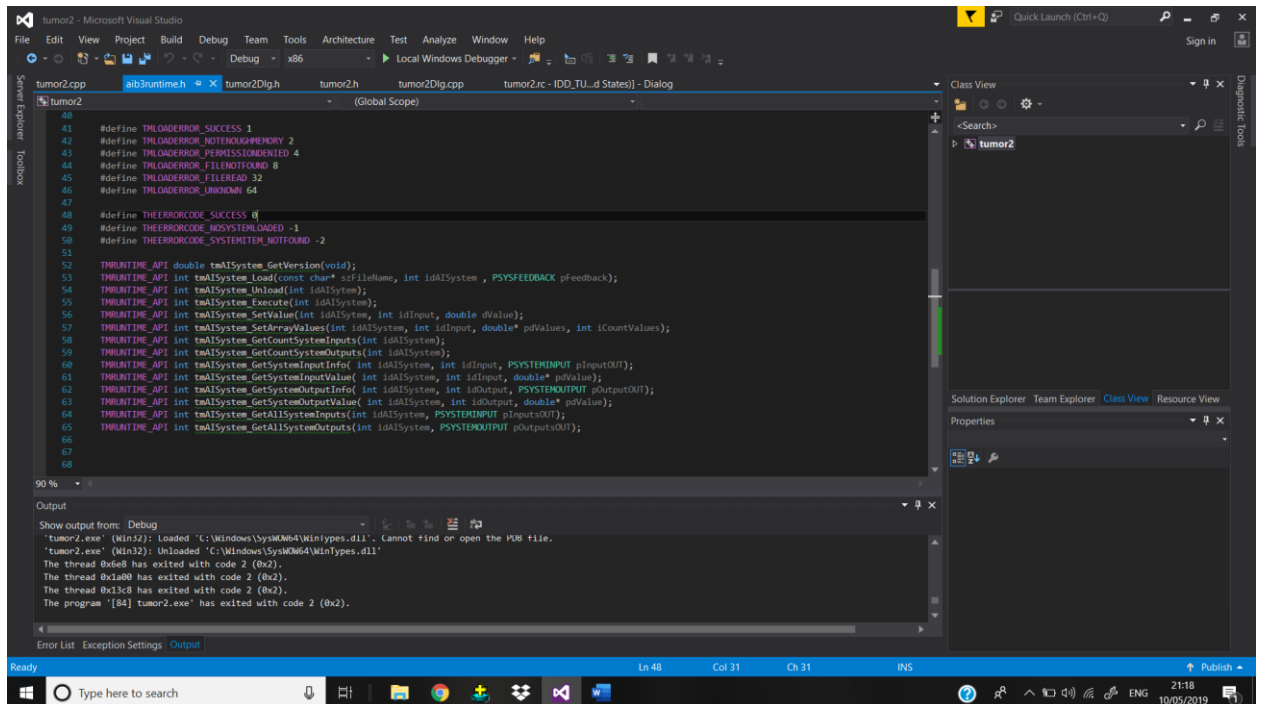


Figure A2. Runtime API information

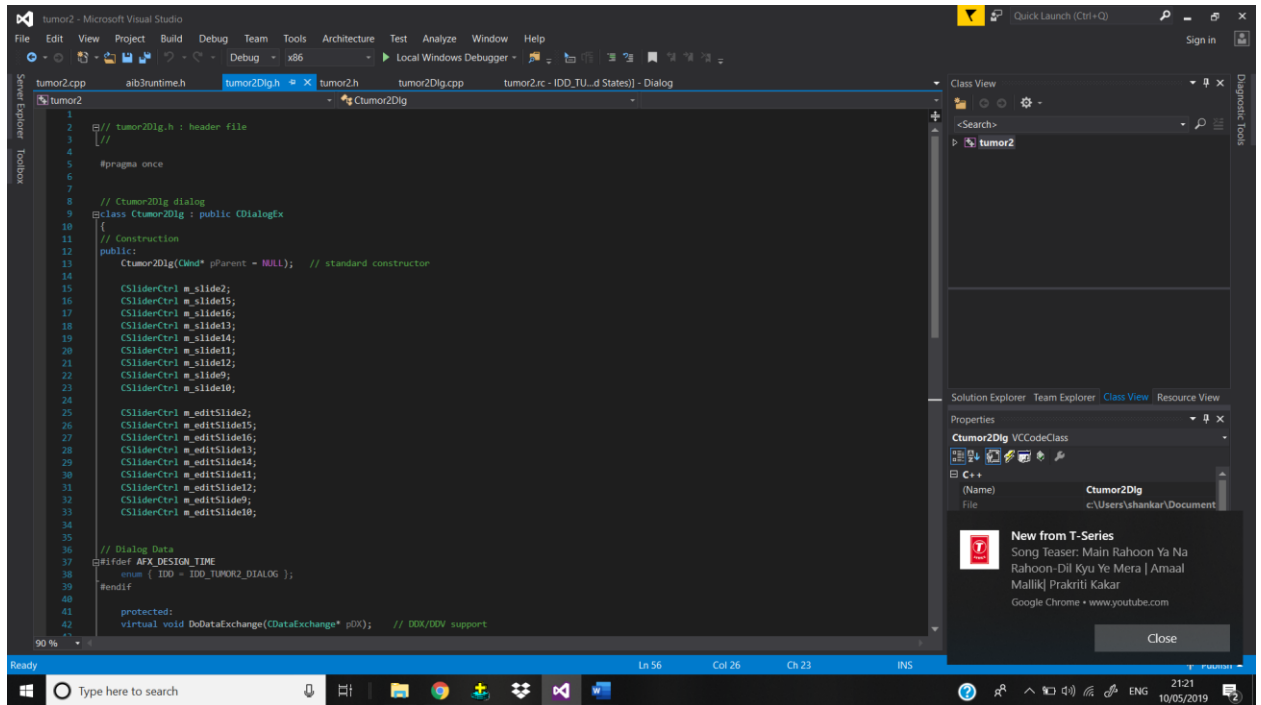


Figure A3. Header file used for Dialog Box along with information of Slider Controls

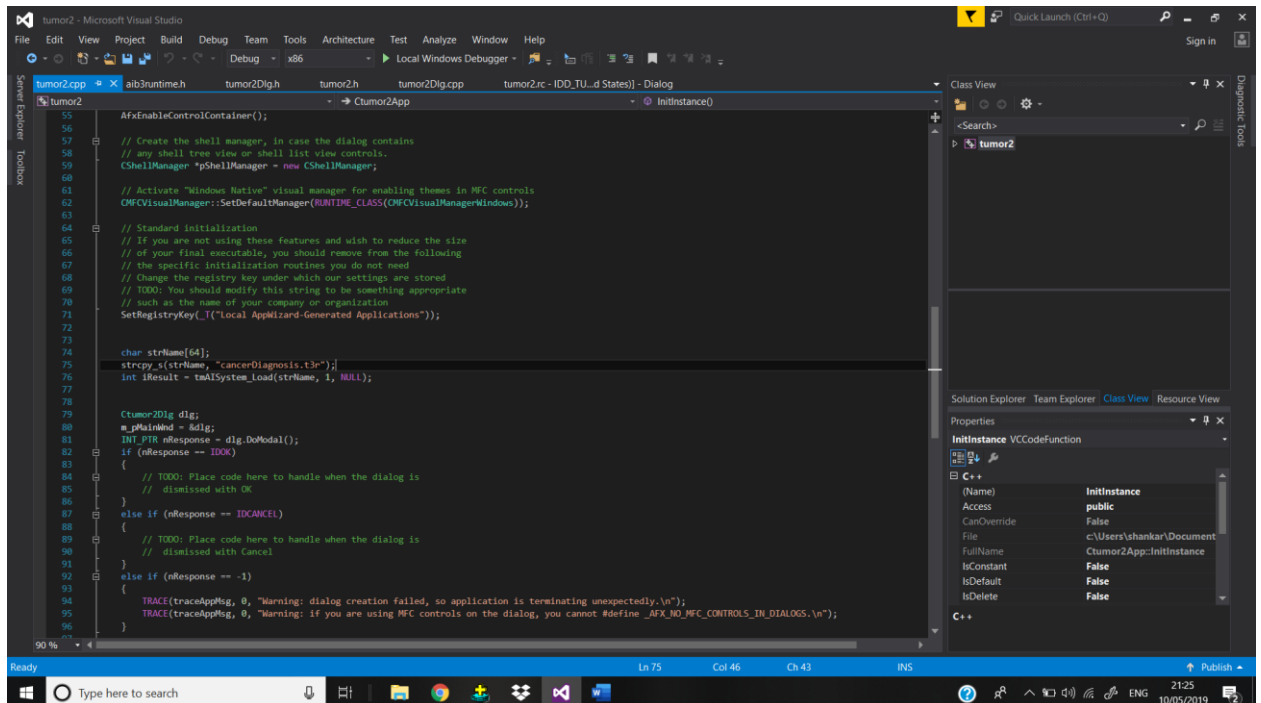


Figure A4. Including learned dataset file

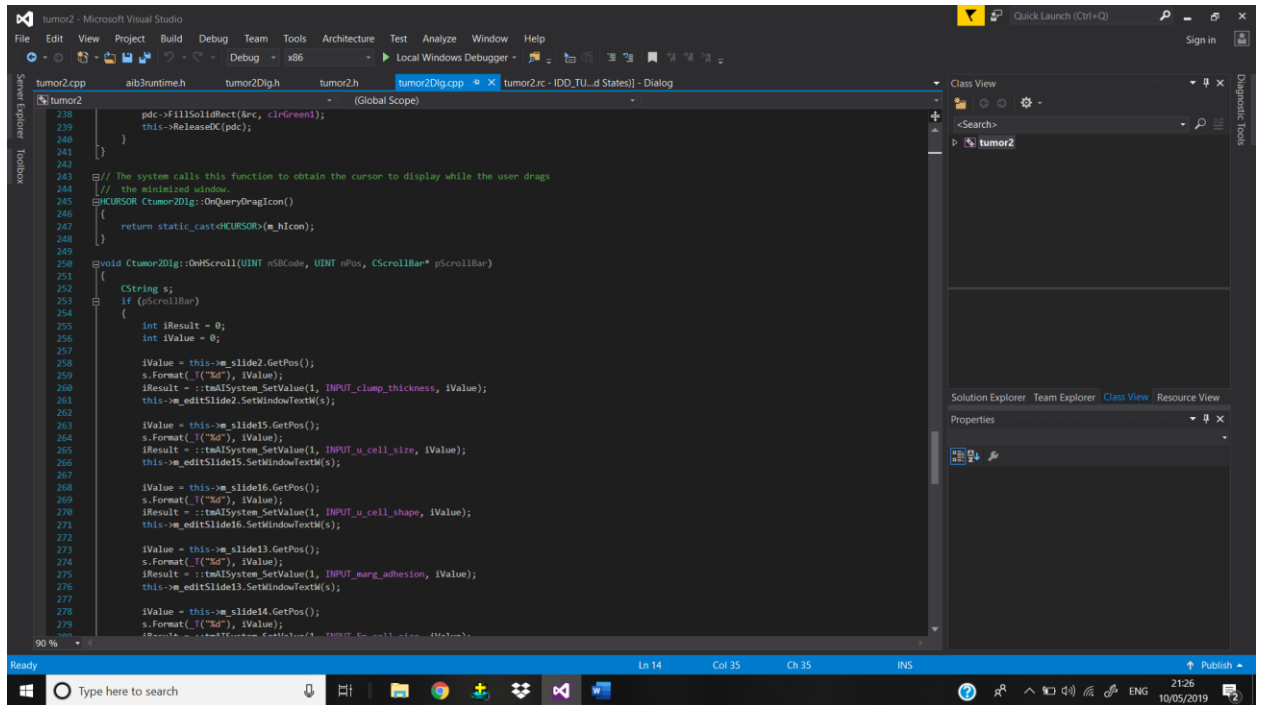


Figure A5. Returning pointer value of Slider in Edit box using this pointer

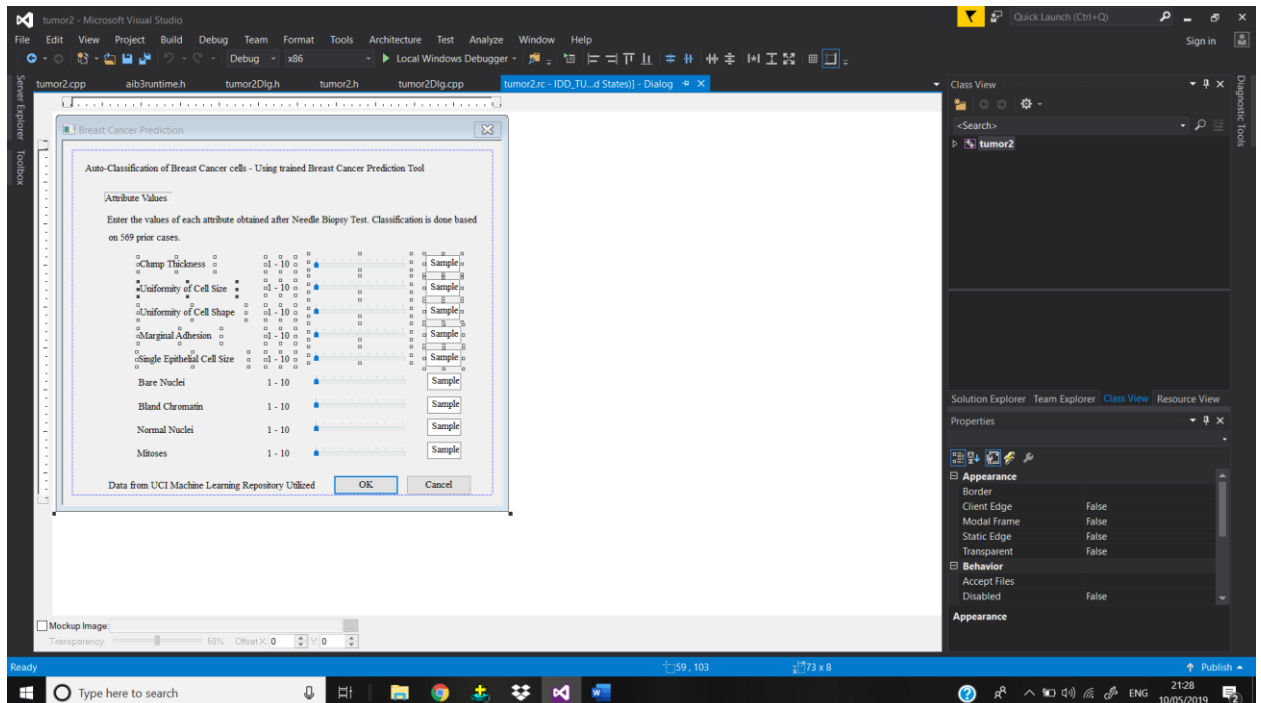


Figure A6. Editable Dialog Box along with 9 Attributes

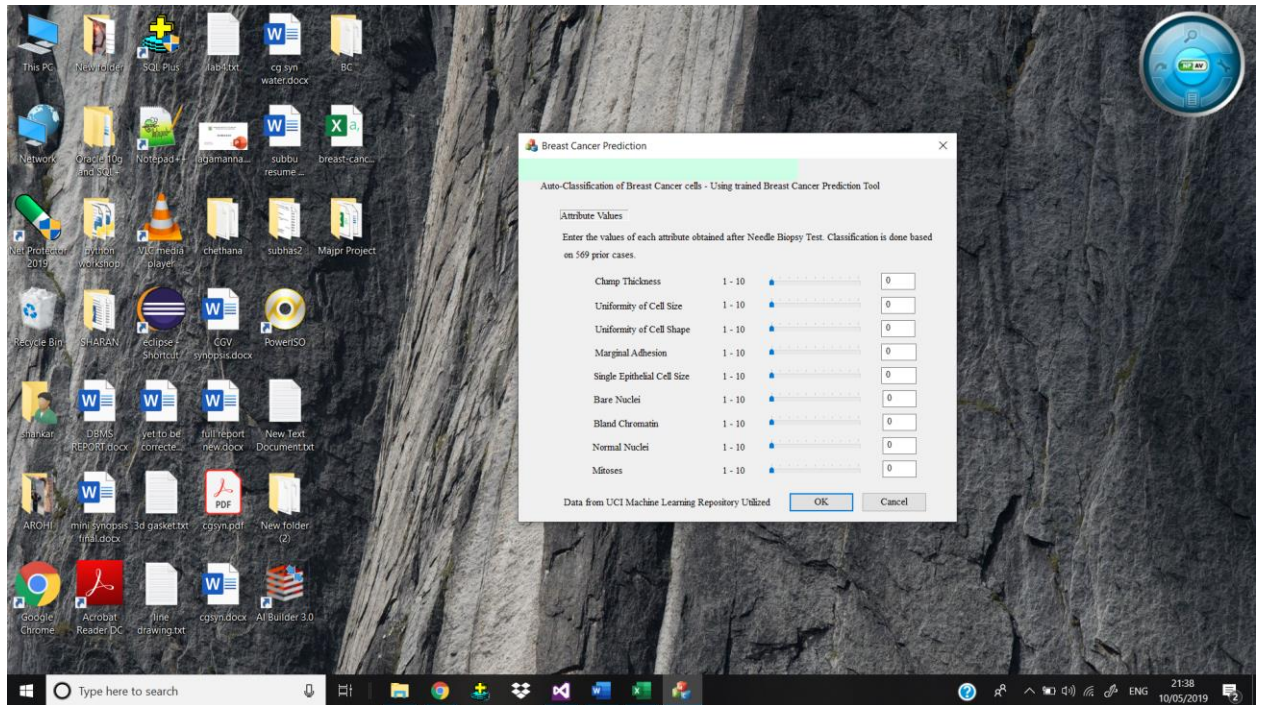


Figure A7. Executable pop-up Dialog Box is opened

The Excel spreadsheet displays a dataset of breast cancer samples. The row for id_number 1047630 is highlighted. The data is as follows:

| id number | Clump Thickness | Uniformity of Cell Size | Uniformity of Cell Shape | Marginal Adhesion | Single Epithelial Cell Size | Bare Nuclei | Bland Chromatin | Normal Nuclei | Mitoses | Class (2 for Benign, 4 for Malignant) |
|-----------|-----------------|-------------------------|--------------------------|-------------------|-----------------------------|-------------|-----------------|---------------|---------|---------------------------------------|
| 1000025 | 5 | 1 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 2 |
| 1002945 | 5 | 4 | 4 | 5 | 7 | 10 | 3 | 2 | 1 | 2 |
| 1015425 | 3 | 1 | 1 | 1 | 2 | 2 | 3 | 1 | 1 | 2 |
| 1016277 | 6 | 8 | 8 | 1 | 3 | 4 | 3 | 7 | 1 | 2 |
| 1017023 | 4 | 1 | 1 | 3 | 2 | 1 | 3 | 1 | 1 | 2 |
| 1017122 | 8 | 10 | 10 | 8 | 7 | 10 | 9 | 7 | 1 | 4 |
| 1018099 | 1 | 1 | 1 | 1 | 2 | 10 | 3 | 1 | 1 | 2 |
| 1018561 | 2 | 1 | 2 | 1 | 2 | 1 | 3 | 1 | 1 | 2 |
| 1033078 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 5 | 2 |
| 1033078 | 4 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 |
| 1035283 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 2 |
| 1036172 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 |
| 1041801 | 5 | 3 | 3 | 3 | 2 | 3 | 4 | 4 | 1 | 4 |
| 1043999 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 1 | 1 | 2 |
| 1044572 | 8 | 7 | 5 | 10 | 7 | 9 | 5 | 5 | 4 | 4 |
| 1047630 | 7 | 4 | 6 | 4 | 6 | 1 | 4 | 3 | 1 | 4 |
| 1048672 | 4 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 |
| 1049815 | 4 | 1 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 2 |
| 1050670 | 10 | 7 | 7 | 6 | 4 | 10 | 4 | 1 | 2 | 4 |
| 1050718 | 6 | 1 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 2 |
| 1054590 | 7 | 3 | 2 | 10 | 5 | 10 | 5 | 4 | 4 | 4 |
| 1054593 | 10 | 5 | 5 | 3 | 6 | 7 | 7 | 10 | 1 | 4 |
| 1056784 | 3 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 |
| 1057013 | 8 | 4 | 5 | 1 | 2 | 7 | 7 | 3 | 1 | 4 |
| 1059552 | 1 | 1 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 2 |
| 1065726 | 5 | 2 | 3 | 4 | 2 | 7 | 3 | 6 | 1 | 4 |
| 1066373 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 |
| 1066979 | 5 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 |

Figure A8. Input dataset for id_number 1047630 is highlighted

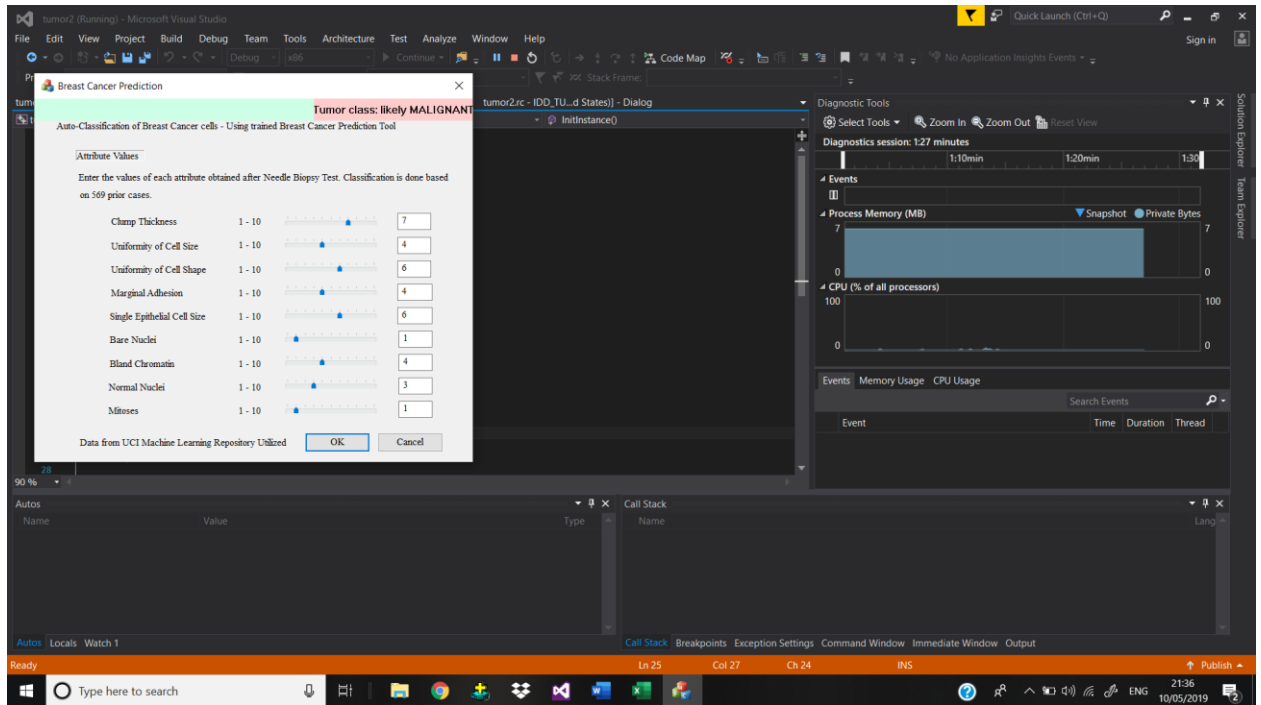


Figure A9. Attribute input is given to Dialog Box for above id